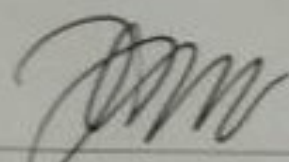


## APPROVAL PAGE

Approval of the School of Computing of Telkom University

I certify that this thesis satisfies all the requirements as a thesis for the degree of Master Informatics.

Date: 25/8/2017

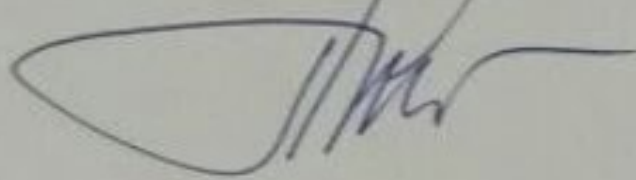


(Dena Sulistyo Kusumo, Ph.D.)

Head of Master Informatics

This is to certify that we have read this thesis and that in our opinion it is fully adequate in scope and quality as a thesis for the degree of Master Informatics.

Date: 23/08/2017



(Hertog Nugroho, Ph.D.)

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Date: 23.08.2017

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